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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/822,930	04/13/2004	Andrew Long	KCC 4994 (K-C 20,135)	4434		
321 75	590 12/28/2004		EXAM	INER		
SENNIGER P	OWERS LEAVITT	HILL, LAURA C				
ONE METROPOLITAN SQUARE						
16TH FLOOR ST LOUIS, MO 63102			ART UNIT	PAPER NUMBER		
			3761			

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/822,930	LONG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Laura Hill	3761					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
	action is non-final.						
,	7 						
Disposition of Claims							
4) ⊠ Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 14,15,30 and 31 is/are allowed. 6) ⊠ Claim(s) 1-13,16-29 and 32-53 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine	г.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)	_						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
 2) Notice of Dransperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>28 June 2004</u>. 		atent Application (PTO-152)					



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.
		•	EXAMINER	
			ART UNIT	PAPER
		•		20041216

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-2, 11, 17, 20 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Ahr et al. (US 5,997,520). With regard to claims 1, 17 and 20, the Ahr et al. reference discloses absorbent article having a liquid pervious top sheet 38, liquid impervious back sheet 42, absorbent core 44, and an expandable component 200 (col. 4, Il. 50-col. 5, line 1). The Ahr et al. reference further discloses first material 300/gasgenerating system and second activating materials 400/ surfactant as a means for the expanding component and a means for combining the materials to expand the spacer 210 to a greater second thickness T2 yielding carbon dioxide when wetted (col. 5, Il. 14-18 and col. 11, Il. 32-38). With regard to claim 2, the Ahr et al. reference discloses first material 300/ gas-generating system that is a combination of bicarbonate/base and a powered acid (col. 11, Il. 34-37). With regard to claims 11 and 27, the Ahr et al. reference discloses envelope 290, containing aforementioned gas-generating system, which is formed from a spunbond hydrophobic nonwoven (col. 12, Il. 39-41).
- 2. Claim 33 is rejected under 35 U.S.C. 102(b) as being anticipated by Glaug et al. (US 5,649,914). The Glaug et al. reference discloses toilet training aid 24 that creates a distinct feeling during urination with a temperature and dimensional change upon

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contact with an aqueous solution such as urine (col. 4, II. 24-27). The Glaug et al. reference further discloses pad 50 with casing 52 which includes wet sensation layer 56 and support layer 58 with temperature change member 54 sandwiched within the casing between the wet sensation and support layers (col. 5, II. 24-28).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 3-10, 12-13, 16, 22-26, 28-29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahr et al. as applied to claims 2 and 17 (US 5,997,520). With regard to claims 3-4, the Ahr et al. reference discloses carbon dioxidegenerating element previously discussed in claim 1 with first gas-evolving material 300 that is a combination of bicarbonate/base and a powered acid (col. 11, II. 34-37). Even though the Ahr et al. reference does not disclose potassium bitartrate and sodium aluminum sulfate acids, it would be obvious to one skilled in the art to use any

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combination of acid and base which would generate carbon dioxide since the Ahr et al. absorbent article generates carbon dioxide as claimed.

With regard to claim 5, the Ahr et al. reference discloses that gas evolving material 300 can be disposed in a hydrophobic envelope and therefore it would be obvious that at least the acid and base that comprise the gas-evolving material would be encapsulated as claimed (col. 2, II. 64-65-col. 3, line 3).

With regard to claims 6-10 and 22-26, the Ahr et al. reference discloses second activating material 400 that can be water or other activating material such as a surfactant (col. 12, II. 1-2). It would be obvious to one skilled in the art to choose the listed anionic, nonionic, amphoteric, and cationic surfactants from the groups claimed since the Ahr et al. reference contains the aforementioned activating material which could function to interact with gas to form foam as applied to claim 1 and 17 discussed above.

With regard to claims 12 and 28, the Ahr et al. reference discloses spacer 210 with activating materials within envelope 290 that is joined/attached to upper core layer 44U of absorbent core 44 as applied to claims 1 and 17 as previously discussed (col. 13, line 40 and fig. 3).

With regard to claims 13 and 29, the Ahr et al. reference discloses first material 300 which is joined to absorbent core as previously discussed and can comprise super absorbent polymers which swell or expand upon being wetted (col. 16, II. 34-37). It would be obvious from the teachings of Ahr et al. to use super absorbent particles since they assist in absorption of urine into core and away from user's skin as claimed.

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With regard to claims 16 and 32, the Ahr et al. reference discloses amounts of citric acid and potassium bicarbonate to be 0.0172 and 0.0179 g respectively in incorporation by reference, US 3,881,491. Although these amounts do not fall within the ranges claimed, it would be obvious that these ranges could produce the desirable amount of bubbles and foam specified from the disclosure of Ahr et al. as applied to aforementioned claims 2 and 17.

4. Claims 1-2, 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slavtcheff et al. (WO 01/56542 A1). With regard to claims 1-2 and 17, the Slavtcheff et al. reference discloses sensory-imparting pleated sachet with effervescent cleanser composition 12 placed within pouch 10/envelope to allow gaseous expansion and generating CO2 when contacted with water (pg. 6, line 23 pg. 7, II. 16-17 and pg. 8, II. 19-21). The Slavtcheff et al. reference further discloses that effervescence composition which is a combination of an alkaline/base and acid /gas-forming system and a surfactant (pg. 8, II. 15-16 and pg. 10, II. 10-11). Although urine-permeable layers are not disclosed, it would be obvious to combine the gas-forming system and surfactant teachings of Slavtcheff et al. with absorbent article layers well known to those skilled in the art to yield an absorbent article with expanding properties as claimed since both function to expand absorbing elements.

With regard to claim 16, the Slavtcheff et al. reference discloses base amount of 25-35% and acid amount 20-45% by weight of total effervescent composition (pg. 8, II. 24-25 and pg. 9, II. 12-13 and 25). Even though the Slavtcheff et al. reference does not disclose amount of surfactant necessary, it would be obvious to select a range, which

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would produce the desired amount of bubbles and foam since the acid and base amounts are disclosed.

With regard to claims 18 and 21, the Slavtcheff et al. reference discloses aforementioned pouch 10/ envelope that may contain solid materials such as sugars, starches, sorbitol which assist in depositing skin benefit agents onto the skin surface (pg. 16, II. 8-16). Although the solid materials are not the encapsulated effervescent material claimed but rather are deposited into the base to achieve a dry-flowing powder (pg. 10, II. 26-27), it would be obvious to one skilled in the art to add this solid material from the solid material teachings of Slavtcheff et al in order to form pressurized gas as claimed.

5. Claims 34-45 and 48-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glaug et al. ('914) as applied to claim 33 in view of Ahr et al. ('520). With regard to claims 34-42 and 48-53, the Glaug et al. reference discloses toilet training aid 24 that creates a distinct feeling during urination with a temperature and dimensional change upon contact with an aqueous solution such as urine as applied to claim 33 discussed above. It would be obvious to one skilled in the art to combine the temperature change agent of Glaug et al. with the gas-system and surfactant of Ahr et al. to form an absorbent article with both components and also select acid, base and surfactants from the groups claimed since both Glaug et al. and Ahr et al. teach expanding absorbent articles with wetness indicators useful for toilet training.

With regard to claims 43-45, the Glaug et al. reference discloses wet sensation layer 56 of temperature change agent aforementioned in claim 33 which is located on

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top of absorbent core and is a spunbond web containing super absorbent fibers (col. 7, II. 28-29 and II. 43-47 and fig. 2). It would be obvious to one skilled in the art to combine the envelope contained within absorbent core teachings of Ahr et al. with the temperature change agent of the Glaug et al. reference to yield an absorbent article with the claimed characteristics since both teach carbon dioxide-releasing elements.

Allowable Subject Matter

Claims 14-15, 30-31 and 46-47 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the art of record fails to show location and/or placement of super absorbent particles within an inflatable envelope.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Angelillo et al. reference, US patent no. 5,277,180, is cited for showing a tampon that expands by mixing citric acid with sodium bicarbonate to produce carbon dioxide and the gas generates a stable foam upon release. The Underhill et al. reference, US patent no. 6,657,100, is cited for showing toilet training pad with a microencapsulated astringent agent to provide tingling sensation upon urination.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura Hill whose telephone number is 571-272-7137.

The examiner can normally be reached on 8:00 AM-5:30 PM (off every other Friday).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Schwartz can be reached on 571-272-4390. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura Hill Examiner Art Unit 3761

LCH

Larry I. Schwartz
Supervisory Patent Examiner

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Group 3700